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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,097	09/15/2006	Christian Ohler	1004501-000862	7836
	7590 06/10/200 INGERSOLL & ROOI	EXAMINER		
POST OFFICE	BOX 1404	NGUYEN, HOANG M		
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			3748	
			NOTIFICATION DATE	DELIVERY MODE
			06/10/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

	Application No.	Applicant(s)				
Office Action Comments	10/593,097	OHLER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hoang M. Nguyen	3748				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	- [.] action is non-final.					
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closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
oloood in absordance with the places and of E.	x parte quayre, 1000 o.b. 11, 10	0.0.210.				
Disposition of Claims						
 4) ☐ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/15/06. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Other:						

Claims 2, 4, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "such as" in claim 2 is vague and indefinite, and should be avoided in claim language.

In claim 4, lines 3-4, the phrase "the second working fluid circuit and the first working circuit are identical" is not consistent with the specification because those circuits are not identical.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 9-10, are rejected under 35 U.S.C. 102(b) as being anticipated by US 4942736 (Bronicki).

Bronicki discloses a system having a thermal storage device (160 or the reservoirs 104, 114, can also be considered as thermal storage devices), turbines 120a, 120b for driving an electric generator 130 to drive compressors 140 to warm up the thermal storage device 160, there are two heating means 102, 112, that are identical.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6-7, 9-10, are rejected under 35 U.S.C. § 103(a) as being unpatentable over Applicant's admitted prior art (pages 1-2, and lines 1-7 of claim 1 in form of Jepson claim) in view of U.S. 4942736 (Bronicki). Applicant's admitted prior art on pages 1-2 and especially lines 1-7 of claim 1 discloses the system with a heat storage device, heat transfer means, first heat generating means for heating the storage device with electrical power. Applicant's admitted prior art does not disclose a second heat generating means. Bronicki discloses a system having a thermal storage device (160 or the reservoirs 104, 114, can also be considered as thermal storage devices), turbines 120a, 120b for driving an electric generator 130 to drive compressors 140 to warm up the thermal storage device 160, there are two heating means 102, 112, that are identical. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide a second identical heat generating means in the system of Applicant's admitted prior art as taught by Bronicki for the purpose of supplementing the input power.

Claims 5, 8, are rejected under 35 U.S.C. § 103(a) as being unpatentable over Applicant's admitted prior art in view of Bronicki and U.S. 5384489 (Bellac). Applicant's admitted prior art discloses all the claimed subject matter as set forth above in the rejection of claim 1, but does not disclose a heat resistor/resistance for the thermal storage device. Bellac is relied upon to disclose it's well known to use a heat

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resistor/resistance 34 with a switch means 15 to control the heat input to a thermal storage device 43. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide a heat resistor with switch means in Applicant's admitted prior art as taught by Bellac for the purpose of providing a more accurate heating and control means.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rowe, Seidel et al, Lewis, and Benson disclose systems using many heat sources.

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Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Nguyen whose telephone number is (571) 272-4861. The examiner can normally be reached on Tuesday--Friday from 12:30 AM to 10:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on 571-272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Hoang M Nguyen/ Primary Examiner, Art Unit 3748

> HOANG NGUYEN PRIMARY EXAMINER ART UNIT 3748

Hoang Minh Nguyen 6/8/2009